

10/800667

Refine Search

Search Results -

| Terms | Documents |
|--|-----------|
| L13 and (navigat\$.clm. and switch\$.clm.) | 10 |

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L15

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, December 05, 2006 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set
Name Query
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Hit
Count Set
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
 OP=OR

| | | | |
|------------|--|----|------------|
| <u>L15</u> | L13 and (navigat\$.clm. and switch\$.clm.) | 10 | <u>L15</u> |
| <u>L14</u> | L13 and (navigat\$ and switch\$.clm.) | 19 | <u>L14</u> |
| <u>L13</u> | l11 or L12 | 78 | <u>L13</u> |
| <u>L12</u> | l4 and @pd<=20030324 | 49 | <u>L12</u> |
| <u>L11</u> | l4 and @ad<=20030324 | 77 | <u>L11</u> |
| <u>L10</u> | L8 and (navigat\$ and switch\$.clm.) | 5 | <u>L10</u> |
| <u>L9</u> | L8 and (navigat\$ and switch\$) | 23 | <u>L9</u> |
| <u>L8</u> | L6 or L7 | 23 | <u>L8</u> |
| <u>L7</u> | L5 and @pd<=20030324 | 11 | <u>L7</u> |
| <u>L6</u> | L5 and @ad<=20030324 | 23 | <u>L6</u> |
| <u>L5</u> | L4 and ("touch-screen" or "touchscreen" or "touch screen") | 38 | <u>L5</u> |

(toggl\$ with switch\$) and (select\$ with option\$) and navigat\$ and map\$

L4 and (car\$ or automobile or vehicl\$)
DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR
L3 L2 and (select\$ same option\$)
L2 20040193371
DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR
L1 6542793.pn.

113 L4
1 L3
1 L2
1 L1

END OF SEARCH HISTORY

Hit List

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Search Results - Record(s) 1 through 10 of 10 returned.

☐ 1. Document ID: US 20030036827 A1

L15: Entry 1 of 10

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036827

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036827 A1

TITLE: Light detection and ranging (lidar) mapping system

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Murphy, Kevin E.

Columbia

MD

US

US-CL-CURRENT: 701/3

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 2. Document ID: US 20020198633 A1

L15: Entry 2 of 10

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020198633

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020198633 A1

TITLE: In-car computing device and method of controlling a cursor for an in-car computing device

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Weimper, Andreas

Filderstadt

DE

US-CL-CURRENT: 701/1; 701/200

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 3. Document ID: US 6711475 B2

L15: Entry 3 of 10

File: USPT

Mar 23, 2004

US-PAT-NO: 6711475

DOCUMENT-IDENTIFIER: US 6711475 B2

**** See image for Certificate of Correction ****TITLE: Light detection and ranging (LIDAR) mapping system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 4. Document ID: US 6611755 B1

L15: Entry 4 of 10

File: USPT

Aug 26, 2003

US-PAT-NO: 6611755

DOCUMENT-IDENTIFIER: US 6611755 B1

**** See image for Certificate of Correction ****TITLE: Vehicle tracking, communication and fleet management system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 5. Document ID: US 6028537 A

L15: Entry 5 of 10

File: USPT

Feb 22, 2000

US-PAT-NO: 6028537

DOCUMENT-IDENTIFIER: US 6028537 A

TITLE: Vehicle communication and remote control system

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 6. Document ID: US 5991690 A

L15: Entry 6 of 10

File: USPT

Nov 23, 1999

US-PAT-NO: 5991690

DOCUMENT-IDENTIFIER: US 5991690 A

TITLE: Navigation system incorporating simplified location display

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 7. Document ID: US 5898392 A

L15: Entry 7 of 10

File: USPT

Apr 27, 1999

US-PAT-NO: 5898392
DOCUMENT-IDENTIFIER: US 5898392 A

TITLE: System and method for remote control of an in-vehicle voice recorder and other electrical accessories

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 8. Document ID: US 5774828 A

L15: Entry 8 of 10

File: USPT

Jun 30, 1998

US-PAT-NO: 5774828
DOCUMENT-IDENTIFIER: US 5774828 A

TITLE: Mapless GPS navigation system with user modifiable data base

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 9. Document ID: US 5528248 A

L15: Entry 9 of 10

File: USPT

Jun 18, 1996

US-PAT-NO: 5528248
DOCUMENT-IDENTIFIER: US 5528248 A

TITLE: Personal digital location assistant including a memory cartridge, a GPS smart antenna and a personal computing device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 10. Document ID: US 3769710 A

L15: Entry 10 of 10

File: USPT

Nov 6, 1973

US-PAT-NO: 3769710
DOCUMENT-IDENTIFIER: US 3769710 A

TITLE: ELECTRONIC CELESTIAL NAVIGATION MEANS

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
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| Terms | Documents |
| L13 and (navigat\$.clm. and switch\$.clm.) | 10 |

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 20030023353 A1

L10: Entry 1 of 5

File: PGPB

Jan 30, 2003

PGPUB-DOCUMENT-NUMBER: 20030023353

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030023353 A1

TITLE: Arrangement for a switch-equipped steering wheel

PUBLICATION-DATE: January 30, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Badarneh, Ziad

Oslo

NO

US-CL-CURRENT: 701/1

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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☐ 2. Document ID: US 20030001816 A1

L10: Entry 2 of 5

File: PGPB

Jan 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030001816

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030001816 A1

TITLE: Display and manoeuvring system and method

PUBLICATION-DATE: January 2, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

Badarneh, Ziad

Oslo

NO

US-CL-CURRENT: 345/156; 715/863

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 3. Document ID: US 6429812 B1

L10: Entry 3 of 5

File: USPT

Aug 6, 2002

US-PAT-NO: 6429812

DOCUMENT-IDENTIFIER: US 6429812 B1

TITLE: Mobile communication device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 4. Document ID: US 6252544 B1

L10: Entry 4 of 5

File: USPT

Jun 26, 2001

US-PAT-NO: 6252544

DOCUMENT-IDENTIFIER: US 6252544 B1

TITLE: Mobile communication device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

☐ 5. Document ID: US 5528248 A

L10: Entry 5 of 5

File: USPT

Jun 18, 1996

US-PAT-NO: 5528248

DOCUMENT-IDENTIFIER: US 5528248 A

TITLE: Personal digital location assistant including a memory cartridge, a GPS smart antenna and a personal computing device

| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
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| Terms | Documents |
| L8 and (navigat\$ and switch\$.clm.) | 5 |

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Generate Collection

Print

L15: Entry 8 of 10

File: USPT

Jun 30, 1998

US-PAT-NO: 5774828

DOCUMENT-IDENTIFIER: US 5774828 A

TITLE: Mapless GPS navigation system with user modifiable data base

DATE-ISSUED: June 30, 1998

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|-----------|-------|----------|---------|
| Brunts; Randall T. | Carmel | IN | | |
| Welk; Douglas Lynn | Rossville | IN | | |

US-CL-CURRENT: 701/210; 340/990, 340/995.24, 340/995.26, 340/995.27, 701/200, 701/208

CLAIMS:

What is claimed is:

1. A mapless navigation system with a user modifiable data base for adding data, including coordinate data, to previously stored data and for recalling the data, said mapless navigation system comprising:

a position sensing receiver for receiving position information and determining a current position thereof;

a user modifiable destination data base internal to the navigation system with programmable memory for adding information to existing destinations to the data base and for adding coordinates of and other information regarding new destinations including said current position as a new destination to said data base;

user interface means in said system for accessing the user modifiable data base, for adding said information to the user modifiable data base, and for recalling database information, including the added information on destinations;

user selectable input means for selecting a desired destination from the user modifiable data base, including the destination added by a user of the data base;

processor means for determining a distance and a direction from the determined current position to the selected desired destination; and

a mapless display for displaying said distance from the current position to the selected desired destination, and a direction pointing indicator in said display for indicating said direction from the current position to the

selected desired destination.

2. The navigation system as defined in claim 1 wherein said position sensing receiver provides coordinates for the added destination to said user modifiable database.

3. The navigation system as defined in claim 2 wherein said user modifiable data base is contained in a memory card and the user interface means includes means for transferring said coordinates from said position sensing receiver to said user modifiable database.

4. The navigation system as defined in claim 3 wherein said coordinate transfer means includes a pushbutton that actuates transfer of coordinate data from said position sensing receiver to said user modifiable data base.

5. The navigation system as defined in claim 4 wherein said user modifiable data base includes a portion that is non-modifiable and the non-modifiable portion is contained in said memory card accessed via a memory card interface.

6. The navigation system as defined in claim 3 wherein said coordinate transfer means includes a rotary pushbutton switch that is rotatable for selecting available memory locations and axially depressible for storing a user specified destination in one of the available memory locations.

7. The navigation system as defined in claim 5 wherein said pushbutton for storing the current position as a user specified destination is a rotary pushbutton switch that is rotatable for selecting available memory locations and axially depressible for storing the current position as said user specified destination.

8. A method of providing navigational assistance to a mobile user of mapless navigation system, said method comprising the steps of:

receiving GPS signals containing position latitude and longitude information on current position of the mapless navigation-system;

providing a memory card in the mapless navigation system having a user modifiable data base thereon containing latitude and longitude coordinates and associated identifying destinations therefor;

providing an identifying destination for association with the current position latitude and longitude coordinates;

storing the identifying destination in association with its current position latitude and longitude coordinates in the user modifiable data base;

selecting one of the stored identifying destinations and its associated coordinates from the user modifiable data base;

determining a distance and a direction from the current position to the selected coordinates; and

displaying the determined distance and a direction pointer indicating the direction from the current position to the selected coordinates on a mapless display.

9. The method as defined in claim 8 further comprising the step of reading categorized destinations and corresponding latitude and longitude position coordinates of the categorized destinations from the user modifiable destination data base stored on said memory card.

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Refine Search

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

| Terms | Documents |
|---|-----------|
| L13 and (auto\$ with select\$) and window\$ | 1 |

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L18

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Tuesday, December 05, 2006 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set
Name **Query**
side by
side

Hit
Count **Set**
 Name
 result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES;
OP=OR

| | | | |
|------------|--|----|------------|
| <u>L18</u> | L13 and (auto\$ with select\$) and window\$ | 1 | <u>L18</u> |
| <u>L17</u> | L16 and (auto\$ with select\$) | 1 | <u>L17</u> |
| <u>L16</u> | L15 and (display\$ or content\$ or window\$) | 10 | <u>L16</u> |
| <u>L15</u> | L13 and (navigat\$.clm. and switch\$.clm.) | 10 | <u>L15</u> |
| <u>L14</u> | L13 and (navigat\$ and switch\$.clm.) | 19 | <u>L14</u> |
| <u>L13</u> | L11 or L12 | 78 | <u>L13</u> |
| <u>L12</u> | L4 and @pd<=20030324 | 49 | <u>L12</u> |
| <u>L11</u> | L4 and @ad<=20030324 | 77 | <u>L11</u> |
| <u>L10</u> | L8 and (navigat\$ and switch\$.clm.) | 5 | <u>L10</u> |

| | | | |
|--|---|-----|-----------|
| <u>L9</u> | L8 and (navigat\$ and switch\$) | 23 | <u>L9</u> |
| <u>L8</u> | L6 or L7 | 23 | <u>L8</u> |
| <u>L7</u> | L5 and @pd<=20030324 | 11 | <u>L7</u> |
| <u>L6</u> | L5 and @ad<=20030324 | 23 | <u>L6</u> |
| <u>L5</u> | L4 and ("touch-screen" or "touchscreen" or "touch screen") | 38 | <u>L5</u> |
| <u>L4</u> | (toggl\$ with switch\$) and (select\$ with option\$) and navigat\$ and map\$ and (car\$ or automobile or vehicl\$) | 113 | <u>L4</u> |
| <i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=OR</i> | | | |
| <u>L3</u> | L2 and (select\$ same option\$) | 1 | <u>L3</u> |
| <u>L2</u> | 20040193371 | 1 | <u>L2</u> |
| <i>DB=USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i> | | | |
| <u>L1</u> | 6542793.pn. | 1 | <u>L1</u> |

END OF SEARCH HISTORY

Hit List

First Hit

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

| | | | | |
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| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs |
| Generate OACS | | | | |

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20040009813 A1

L18: Entry 1 of 1

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040009813

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040009813 A1

TITLE: Dynamic interaction and feedback system

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY |
|-----------------------|-----------|-------|---------|
| Wind, Bradley Patrick | Champaign | IL | US |

US-CL-CURRENT: 463/30

| | | | | | | | | | | | | |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|
| Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Ds |
|------|-------|----------|-------|--------|----------------|------|-----------|-----------|-------------|--------|------|---------|

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|-------|---------------------|-------|----------|-----------|---------------|
| Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS |
|-------|---------------------|-------|----------|-----------|---------------|

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|---|-----------|
| Terms | Documents |
| L13 and (auto\$ with select\$) and window\$ | 1 |

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End of Result Set



Generate Collection

Print

.L1: Entry 1 of 1

File: USPT

Apr 1, 2003

US-PAT-NO: 6542793

DOCUMENT-IDENTIFIER: US 6542793 B2

TITLE: Pedal apparatus for vehicles and a vehicle equipped with the same

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY |
|--------------------|---------|-------|----------|---------|
| Kojima; Takao | Hitachi | | | JP |
| Satou; Kazuhiko | Mito | | | JP |
| Minowa; Toshimichi | Mito | | | JP |
| Kuragaki; Satoru | Hitachi | | | JP |
| Yoshikawa; Tokuji | Hitachi | | | JP |

ASSIGNEE-INFORMATION:

| NAME | CITY | STATE | ZIP CODE | COUNTRY | TYPE CODE |
|---------------|-------|-------|----------|---------|-----------|
| Hitachi, Ltd. | Tokyo | | | JP | 03 |

APPL-NO: 09/960491 [PALM]

DATE FILED: September 24, 2001

FOREIGN-APPL-PRIORITY-DATA:

| COUNTRY | APPL-NO | APPL-DATE |
|---------|-------------|----------------|
| JP | 2001-127047 | April 25, 2001 |

INT-CL-ISSUED: [07] G06F 7/00, G06F 17/00

INT-CL-CURRENT:

| TYPE | IPC | DATE |
|------|------------|----------|
| CIPP | B60 T 7/04 | 20060101 |

US-CL-ISSUED: 701/1; 701/70, 701/78, 701/79, 701/93, 303/116.1, 303/113.1, 303/113.5, 303/122.09, 60/554, 60/547.1, 180/170, 180/176, 180/177, 180/274, 180/275, 74/512, 74/513

US-CL-CURRENT: 701/1; 180/170, 180/176, 180/177, 180/274, 180/275, 303/113.1, 303/113.5, 303/116.1, 303/122.09, 60/547.1, 60/554, 701/70, 701/78, 701/79, 701/93, 74/512, 74/513

FIELD-OF-CLASSIFICATION-SEARCH: 701/1, 701/70, 701/78, 701/93, 701/79, 303/116.1, 303/113.1, 303/113.5, 303/113.2, 303/113.4, 303/122.09, 60/554, 60/547.1, 180/170, 180/176, 180/177, 180/274, 180/275, 74/512, 74/513

See application file for complete search history.

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

| | | |
|-----------------|------------|-------|
| Search Selected | Search ALL | Clear |
|-----------------|------------|-------|

| PAT-NO | ISSUE-DATE | PATENTEE-NAME | US-CL |
|--|---------------|------------------|-----------|
| <input type="checkbox"/> <u>5333944</u> | August 1994 | Shirai et al. | 303/113.4 |
| <input type="checkbox"/> <u>5927419</u> | July 1999 | Tokimoto | |
| <input type="checkbox"/> <u>6024420</u> | February 2000 | Yonemura et al. | 303/113.2 |
| <input type="checkbox"/> <u>6050653</u> | April 2000 | Wachi et al. | 303/113.4 |
| <input type="checkbox"/> <u>6142581</u> | November 2000 | Yamaguchi et al. | 303/113.2 |
| <input type="checkbox"/> <u>6158824</u> | December 2000 | Yonemura et al. | 303/113.4 |
| <input type="checkbox"/> <u>6253635</u> | July 2001 | Huber | 267/158 |
| <input type="checkbox"/> <u>2001/0038243</u> | November 2001 | Isono | 303/116.1 |

FOREIGN PATENT DOCUMENTS

| FOREIGN-PAT-NO | PUBN-DATE | COUNTRY | CLASS |
|----------------|---------------|---------|-------|
| 9-123883 | May 1997 | JP | |
| 2000-54860 | February 2000 | JP | |

OTHER PUBLICATIONS

U.S. patent application Ser. No. 09/824,720.
U.S. patent application Ser. No. 09/922,917.

ART-UNIT: 3663

PRIMARY-EXAMINER: Cuchlinski, Jr.; William A.

ASSISTANT-EXAMINER: Mancho; Ronnie

ABSTRACT:

There is provided a pedal apparatus for vehicles, which comprises a pedal reaction-force addition means 4 for adding a reaction force to a pedal 1 of a vehicle, a pedal force detection means 2 for detecting a force added to the pedal 1, a pedal reaction-force control means 3 for adjusting the output of the pedal reaction-force addition means 4. During the running of the vehicle, the pedal reaction-force control means 3 performs the adjustment of a reaction force of the pedal on the basis of the driving environment of the vehicle and the driver's intention and judgement in pedal operation in the driving environment, whereby it is ensured that when the driver has no intention of operating the pedal, the driver can sufficiently place his or her foot on the pedal and that when he driver has any intention of operating the pedal, the driver can realize a smooth pedal operation.

8 Claims, 35 Drawing figures

10/800667 3/24/2003
merely identical to switching TV channels (on a TV screen)

--> 4138726
6055560

6(5)163749

((ACL M/switchover AND ACL M/display) AND SPEC/screen) AND ACL M/imag?): 17 patents.

- 1 6,969,183 Digital lighting apparatus for vehicle, controller for digital lighting apparatus, and control program for digital lighting apparatus
- 2 6,943,955 Stereoscopic display system having a single display
- 3 6,940,646 Method and apparatus for stereoscopic image display
- 4 6,673,019 Diagnostic ultrasound imaging based on rate subtraction imaging (RSI)
- 5 6,436,049 Three-dimensional ultrasound diagnosis based on contrast echo technique
- 6 6,340,959 Display control circuit
- 7 5,847,688 Liquid crystal display apparatus having an increased viewing angle
- 8 5,815,135 Display control apparatus
- 9 5,373,317 Control and display section for borescope or endoscope
- 10 5,173,777 Circuit configuration for inset-image keying in a television set having only one tuner
- 11 5,170,427 Audio and video communications terminal with improved adjustments
- 12 4,989,090 Television scan line doubler including temporal median filter
- 13 4,707,126 Method of positioning original image to be copied and apparatus for performing the same
- 14 4,663,630 PPI radar apparatus
- 15 4,376,575 Single lens reflex cameras and viewfinder display switchover devices therefor
- 16 4,299,462 View finder device having liquid crystal cell
- 17 3,953,669 Video tracking system

((((ACL M/switchover AND ACL M/display) AND SPEC/screen) AND ACL M/imag?) AND SPEC/toggle?): 0 patents.

merely identical to switching TV channels (on a TV screen)

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» Key

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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